Effects of vegetation on mass transfer in steady and unsteady flow

Florence Thomas
_UH HIMB_

MSB 114

**Wednesday, November 03, 2010**

3:00-3:30 pm Coffee Hour
3:30-4:30 pm Seminar

**Abstract**

Vegetated canopies form an important feature of shallow coastal, stream, and lake systems worldwide. These canopies modify the hydrodynamic regime both within and above the canopy, which affects nutrient exchange between the water column and the canopy and between the substratum and the overlying water. Here we use a field portable flume to examine this interaction in both steady and unsteady flow. The results indicate that nutrient exchange in vegetated canopies is dependent on the interaction of the canopy with the overlying water and that the location of organisms within the canopy influences rates of nutrient delivery to their uptake surfaces.

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